(a) providing a cell transformed with the DNA of claim 8 encoding an AGE-1 polypeptide, said DNA being expressed in the cell;

(b) culturing the transformed cell under conditions for expressing the DNA; and

(c) isolating the recombinant AGE-1 polypeptide.

15. (Twice Amended) A method of identifying an AGE-1 modulatory compound that is capable of decreasing the expression of an AGE-1 gene, said method comprising the steps of:

(a) providing a nematode cell expressing the endogenous AGE-1 DNA of claim 8 ,

(b) contacting said nematode cell with a candidate compound; and

(c) measuring AGE-1 gene expression in said nematode cell, a decrease in AGE-1 gene expression in said nematode cell following contact with said candidate compound, relative to AGE-1 gene expression in an untreated nematode cell, identifying said candidate compound as a compound that is capable of decreasing AGE-1 gene expression.

16. (Thrice Amended) A method of identifying an AGE-1 modulatory compound that is capable of decreasing AGE-1 PI 3-kinase activity, said method comprising the steps of:

(a) providing a cell expressing an AGE-1 polypeptide of claim 8;

(b) contacting the cell with a candidate compound; and

(c) measuring the PI 3-kinase activity of said cell, a decrease in AGE-1 PI 3-kinase activity of said cell following contact with the candidate compound, relative to AGE-1 PI 3-kinase activity in an untreated cell, identifying said candidate compound as a compound that is capable of decreasing AGE-1 PI 3-kinase activity.

29. (Twice Amended) The purified and isolated DNA of claim 8, wherein said polypeptide comprises at least 50% of the following amino acids of Figure 6 (SEQ ID NO: 1) at the indicated amino acid positions: amino acids Gly-32, Leu-73, His-78, Phe-81, Glu-109, Phe-114, Leu-123, Leu-125, Phe-129, Lys-181, Ser-208, Lys-211, Arg-321, Leu-325, Leu-351, Ser-355, Met-373, Leu-381, Leu-393, Thr-432, Tyr-451, Glu-475, Pro-507, Ile-514, Gly-518, Glu-530, Val-538, Leu-582, Tyr-606, Pro-643, Phe-665, Leu-744, Leu-745, Arg-762, Leu-789, Arg-794, Ala-827, Arg-829, Trp-835, Ser-842, Asn-905, Gly-917, Asp-975, Ile-990, Asp-1006, His-1020, Lys-1104, Thr-1105, Gly-1130, Phe-1140, and Lys-1144